

CLAIMS

What is claimed is :

5 1. An auto cycled pipeline system, comprising :

a plurality of main pipes arranged in parallel, one side of said plurality of main pipes connecting to an inlet pipe and the other side connecting to an exit pipe, and each said main pipe has a check value ;

10 a plurality of cycle pipes, one side of each said cycle pipe connecting to a foregoing joint in front of said check value and the other side of each said cycle pipe connecting to a rearward joint behind said check value of each said main pipe ; and

a plurality of control valves, each said control value attaching on each said cycle pipe.

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2. The auto cycled pipeline system according to claim 1, wherein said plurality of cycle pipes are used to cycle a liquid.

20 3. The auto cycled pipeline system according to claim 1, wherein said plurality of cycle pipes are used to cycle a gas.

4. The auto cycled pipeline system according to claim 1, further comprising to attach a pump on each said main pipe, used to pump said liquid or said gas.

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5. The auto cycled pipeline system according to claim 4, further

comprising to attach said pump between said foregoing joint and said rearward joint.

5 6.The auto cycled pipeline system according to claim 1, further comprising when one of said plurality main pipes stop pumping, open said control value.

10 7.The auto cycled pipeline system according to claim 1, further comprising when one of said plurality main pipes start pumping, close said control value.

8.An auto cycled ultra pure water supply pipeline system, comprising :
a plurality of main pipes arranged in parallel, one side of said plurality of main pipes connecting to an inlet pipe and the other side
15 connecting to an exit pipe, and each said main pipe has an inlet value, a pump, a check value and an exhaust value ;

a plurality of cycle pipes, one side of each said cycle pipe connecting to a foregoing joint in front of said check value and the other side of each said cycle pipe connecting to a rearward joint behind said check value of
20 each said main pipe ; and

a plurality of control values, each said control value attaching on each said cycle pipe.

25 9.The auto cycled ultra pure water supply pipeline system according to claim 8, wherein said inlet value attaching on the place near said inlet pipe of each said main pipe.

10.The auto cycled ultra pure water supply pipeline system according to claim 8, wherein said exhaust value attaching on the place near said exit pipe of each said main pipe.

5 11.The auto cycled ultra pure water supply pipeline system according to claim 8, wherein said pump and said check value are located between said inlet value and said exhaust value of each said main pipe.

10 12.The auto cycled ultra pure water supply pipeline system according to claim 8, wherein the material of said plurality of cycle pipes is stainless steel.

15 13.The auto cycled ultra pure water supply pipeline system according to claim 8, wherein the diameter of said plurality of cycle pipes is 1/4 inch.

14.The auto cycled ultra pure water supply pipeline system according to claim 8, further comprising to attach said pump between said foregoing joint and said rearward joint.

20 15.The auto cycled ultra pure water supply pipeline system according to claim 8, further comprising when one of said plurality main pipes stop pumping, open said control value.

25 16.The auto cycled ultra pure water supply pipeline system according to claim 8, further comprising when one of said plurality main pipes start pumping, close said control value.

17. The auto cycled ultra pure water supply pipeline system according to claim 8, further comprising to open said inlet valve and said exhaust valve of each said main pipe, to maintain the function of each said main pipe when normal operating.

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